

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.

Notice of Allowability	Application No.	Applicant(s)	
	09/666,554	SATO, TOMONOBU	
	Examiner	Art Unit	
	William C. Vaughn, Jr.	2143	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 15 June 2004.
2. ☒ The allowed claim(s) is/are 14-17, 20-22, 24 and 25. Renumbered 1-10.
3. ☒ The drawings filed on 21 September 2000 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

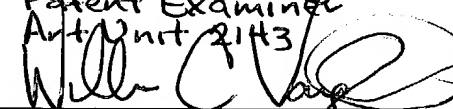
* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>080204</u> |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

William C. Vaughn, Jr.
 Patent Examiner
 Art Unit 2143


Art Unit: 2143

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Hung H, Bui, Reg. No. 40,415 on 04 August 2004.

IN THE CLAIMS

Please amend claims 14-17, 20, 22 and 25 as follows:

14. {CURRENTLY AMENDED} A process of transferring multimedia information in a multimedia information transfer system which comprises a multimedia server, a client server system coupled to said multimedia server for status management, said process comprising the steps of:

storing and reproducing, at said multimedia server, data streams of multimedia information;

dividing said multimedia information, at said multimedia server, into N data blocks (where N is an integer no less than 2), and each of which N data blocks includes n data units (where n is an integer no less than 1), sequentially transferring said multimedia information into N data blocks to said client server of said client server system on a data block basis, and sending a request to transfer said multimedia information divided into N data blocks from said client server system to a proper field of said matrix table;

Art Unit: 2143

requesting, at said client server, said multimedia server to divide said multimedia information into N data blocks and to transfer N data blocks of said multimedia information to said client server; and

storing and registering, at said client server, the transferred data blocks of said multimedia information, and providing a visual display of said multimedia information concurrently with the storage and registration of said multimedia information,

wherein said multimedia information divided into N data blocks is transferred from said multimedia server to said client server of said client server system independently of the update of said transfer and receive status areas of said matrix table.

15. {CURRENTLY AMENDED} The process as claimed in claim 14, wherein said multimedia server, said client server and said one or more clients correspond to different nodes in said network having network addresses dedicated for communications.

16. {CURRENTLY AMENDED} The process as claimed in claim 14, wherein said matrix table is configured for managing a receiving status and a process request status of said client server system, and wherein said multimedia server sets a request for transferring multimedia information divided into N data blocks from said client server system to a proper field of said matrix table and transfers said multimedia information divided into N data blocks based on said received status.

17. {CURRENTLY AMENDED} The process as claimed in claim 14, wherein said matrix table includes a transfer status area which indicates whether the transfer of all N

Art Unit: 2143

data blocks of said multimedia information is complete, and a receive status area which indicates the reception of said multimedia information, wherein said transfer and receive status areas are updated each time transfer and reception operations are executed.

20. {CURRENTLY AMENDED} The process as claimed in claim 14, wherein said multimedia information includes image information, and when said image information is transferred from said multimedia server to ~~said client~~ one or more clients, said ~~client~~ one or more clients operates to specify ~~the~~ an address for identifying said data blocks if said image information stored and ~~the~~ a data address of a specific one of said data units for reproducing said image information.

22. {CURRENTLY AMENDED} A process of transferring multimedia information from a multimedia server to a client server system through a communication network, comprising:

dividing said multimedia information into N data blocks (where N is an integer no less than 2), each of which data block contains n data units (where n is an integer no less than 1), in response to a request by said client server system that said multimedia server transfer said multimedia information divided into N data blocks, each block containing n data units, to said client server system;

transferring the requested data blocks of said multimedia information to said client server system on a data block basis; and

providing a matrix table having a transfer status area which indicates if a transfer operation of all N data blocks of said multimedia information is complete and a receive

Art Unit: 2143

status area which indicated if a receive operation of all N data blocks of said multimedia information transferred from said client server system is complete, the transfer operation of said multimedia information divided into N data blocks being executed based on said status information of said matrix table,

wherein said multimedia information divided into N data blocks is transferred from said multimedia server to said client server of said client server system independently of the update of said transfer and receive status areas of said matrix table.

25. {CURRENTLY AMENDED} The process as claimed in claim 22, wherein said multimedia information includes image information, and when said image information is transferred from said multimedia server to said client server, said client server operates to specify the an address for identifying said data blocks of said image information stored and the data address of a specific one of said data units for reproducing said image information.

Reasons for Allowance

2. The following is an examiner's reasons for allowance: Interpreted in view of the specification, Applicant's invention shows novelty in the use of a process of transferring multimedia information in a multimedia information transfer system which comprises a multimedia server, a client server coupled to said multimedia server for status management, said process comprising the steps of: storing and reproducing, at said multimedia server, data streams of multimedia information; dividing said multimedia information, at said multimedia server, into N data blocks (where N is an integer no less

Art Unit: 2143

than 2), and each of which N data blocks includes n data units (where n is an integer no less than 1), sequentially transferring said multimedia information into N data blocks to said client server on a data block basis, and sending a request to transfer said multimedia information divided into N data blocks from said client server to a proper field of said matrix table; requesting, at said client server, said multimedia server to divide said multimedia information into N data blocks and to transfer N data blocks of said multimedia information to said client server; and storing and registering, at said client server, the transferred data blocks of said multimedia information, and providing a visual display of said multimedia information concurrently with the storage and registration of said multimedia information, wherein said multimedia information divided into N data blocks is transferred from said multimedia server to said client server independently of the update of said transfer and receive status areas of said matrix table, as well as Applicant's enabling portions of the specification, page 19, lines 26-28, page 20, lines 1-7, page 21, lines 3-27 and page 22, lines 1-11. None of the prior art of record teaches or suggests the above limitation in combination with all the limitations of the independent claims.

3. The dependent claims further limit the independent claims and are considered allowable on the same basis as the independent claims as well as for the further limitations set forth.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 2143

5. **Claims 14-17, 19-22, 24 and 25** are allowable. Renumbered **claims 1-10**.

Terminal Disclaimer

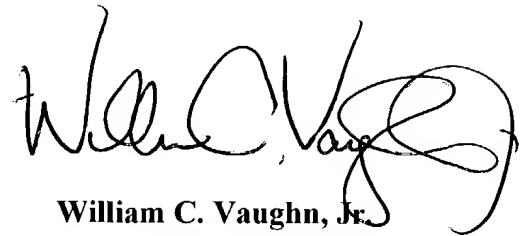
6. The terminal disclaimer filed on 15 June 2004 disclaiming the terminal portion of any patent granted on this application, which would extend beyond the expiration date has been reviewed and is accepted. The terminal disclaimer has been recorded.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to William C. Vaughn, Jr. whose telephone number is (703) 306-9129. The examiner can normally be reached on 8:00-6:00, 1st and 2nd Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A Wiley can be reached on (703) 308-5221. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



**William C. Vaughn, Jr.
Patent Examiner
Art Unit 2143
04 August 2004**